ORNL/TM 7386 Sow Assessment of EM Program June 1988

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DOCUMENT TITLE: SUMMARY (HAND WRITTEN)

**AUTHORS: NO AUTHOR GIVEN** 

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PURPOSE OF RELEASE: HEALTH STUDY FEASIBILITY REPORT

COPY RIGHTED MATERIAL: NO

DOCUMENT NUMBER: UNNUMBERED/800801

DOCUMENT TITLE: RADIOACTIVITY INVENTORY REPORT

AUTHORS: ORNL

DOCUMENT TYPE: REPORT

**DOCUMENT DATE: 00-00-43 THROUGH 00-00-70** 

PURPOSE OF RELEASE: HEALTH STUDY FEASIBILITY REPORT

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### INTERNAL CORRESPONDENCE

-800745

NUCLEAR DIVISION

POST OFFICE BOX 1410, PADUCAH, KENTUCKY 4200

To (Name) Mr. R. G. Jordan

Division Y-12 Plant

Location Oak Ridge, Tennessee

May 3, 1974

Originating Dept.

Answering letter date

Mr. R. C. Baker

Copy to Mr. J. L. Clark, w/o encl. Mr. G. T. Hull, w/o encl.

Mr. R. W. Levin, w/o encl. Mr. C. J. Parks, w/o encl.

Mr. A. M. Tuholsky, w/o encl.

Subject Radioactive Release Inventory

Enclosed are the original and three copies (reduced to 8-1/2 x 14) of Form 789H completed for each release point for the "Inventory of Radioactivity in the Environment On or Near AEC Sites." The uranium estimated to have been released to the environment differs from that contained in the Radioactive Inventory Report sent to you on November 9, 1973. The November report estimated the amounts of uranium released and used judgment in deciding the amount which stayed onsite, was released offsite, etc. This inventory lists only the amounts believed released. No judgment is made as to the quantities of uranium which leave the plantsite from accidental UF<sub>6</sub> releases. Stack releases are assumed to be effluents and released offsite. Only uranium losses of three kilograms or larger and which are documented in material release reports are included. Also, radioactive effluents which were listed in the 1969 and 1970 Radioactive Effluent Monitoring and Control Reports are included.

Emissions from stacks and liquid effluents which have not been documented in the above reports were not included. For instance, the C-404 Solid Radioactive Waste Pit may have discharged somewhere between 500 to 3000 kilograms of uranium per year from rainwater leaching from 1957 through 1968. However, these losses were not documented and have not been included.

A map has been prepared showing the numbers assigned to new effluent and release points. This map has been labeled 'Map Number 2" to distinguish it from the map which is used in the annual effluent report.

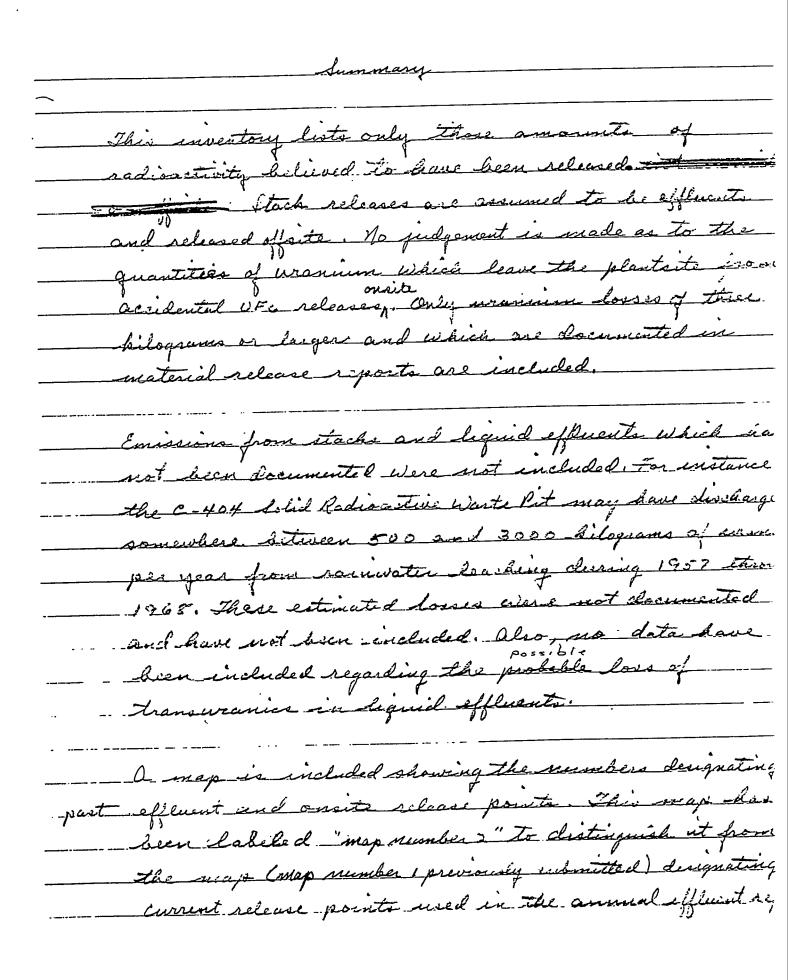
For C. C. Hopkins

CCH: arl

Enclosures: Form 789H

Map

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Summary\_\_\_\_

The radioactivity inventory for the Y-12 Plant is submitted in the form of computer cards and associated print-outs by agreement is the the Environmental Protection Branch, - Oak Redge Operations Office -- The computer cards Were prepared in accordance with the AEC Form 789 format. The clata reported are the most complete information available on discharges to onsite and The quantities reported for airlane releases, New Nope Pond effluents, and the one year on wite descharges to 5-3 Ponds Were obtained from the Y-12 Plants Muclean Material Reports. These date are reported by fiscal years sin this was the form in which the data was recorded. Definitive date prior to FY-1972 for onsite discharges to 5-3 Ponds Was not available in a form suitable for this report. Prior year discharges to 5-3 Ponds And been added to burial ground and pit discords and report by 55 accountability in Caregory 1, Bureal Ground and Pete, Reports. Data on releases Via Bear Creek are reported by calendar year and were taken from Radiation Continuent records of the analyses of Bear There were no new rejentable selease points, thus, a new location was her not and instituted. In

Were prepared in accordance with the AEC Form 289 format. The clata reported are the most complete information available on discharges to onsite and offsete environments. The quantities reported for airlance releases, New Nope Pond effluents, and the one year oneste discharges to 5-3 Ponds were obtained from the Y-12 Plants Mucleur Material Reports. These datu are reported by fiscal years since this was the form in which the data was recorded. Definitive date prior to FY-1972 for onsite discharges to 5-3 Ponds Was not available in a form suitable for this report. Prior year discharges to 5-3 Ponds had been added to burial ground and pit descards and report By 55 accountability in Category 2, Bureal Ground and Peter Reports. Data on releases Via Bear Creek are reported by calendar year and weie taken from Radiation Safity Department records of the analyses of Bear Creek effluents There were no new rejectable selease points, thus, a new location may has not been included. Date on stack releases for prior years were not dolumented by indusdual release points, Reported itack releases represent the entire 4-12 Plant aurborne releaser, and an were assigned an arbitrary release point number, point 59, for reporting purpose

## Radioactivity Inventory Report

Calendar Year 1943 through Calendar Year 1970

Oak Ridge National Laboratory

Operated by

Union Carbide Corporation - Nuclear Division Post Office Box Y Oak Ridge, Tennessee 37830

#### Summary

The attached forms present the annual onsite discharge and effluent release data for the twenty points shown on the referenced maps. Nine-teen of these points are at the ORNL site and one is for an ORNL operation at the Y-12 site. In general, the data presented in these reports were obtained from analyses and associated flow or volume data. In some instances, however, the data were estimated; this fact and the method of estimating the data are shown on the reports.

Where quantative data are not available or past reporting is not required because of the small quantities or short half-lives involved, reports were made covering the entire period of operation on one form. Appropriate remarks are entered in Section 1 to explain why no data are presented. These reports were made to indicate that these release or discharge points did or do exist.

Since past records show only the amount of waste pumped to Waste Pits 2, 3 and 4, collectively, these three pits are considered as one onsite discharge point. Although the original operation of pumping intermediate level waste to these pits has been discontinued and Pits 2 and 3 have been covered over, this discharge point is shown as being active because sludge containing very little activity from the Process Waste Treatment Plant is being deposited in Pit 4.

Radioactivity Inventory Report

Calendar year 1943

through

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